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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/992,984

11/05/2001

Michael Baentsch

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10/19/2006

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EXAMINER

SON, LINH L D

ART UNIT

PAPER NUMBER

2135

DATE MAILED: 10/19/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/992,984

Applicant(s)

BAENTSCH ET AL.

Examiner

Linh LD Son

Art Unit

2135

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 20 July 2006.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1,3-7,9,10,12,14-17 and 19 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 3-7, 9-10, 12, 14-17, and 19 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some *c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Chanhyn B. Tran
AU2135

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

1. This Office Action is responding to the Amendment received on 7/20/06.
2. Claims 2, 8, ¹¹13, and 18 are canceled.
3. Claims 1, 3-7, 9-10, 12, 14-17, and 19 are pending.
4. In Office Action dated 04/20/06, Examiner objected claims 2, 8, 11, 13, and 18 to be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims. Due to a newly found art in an updated search, Examiner regrets that the amended claims is still reject able. This office action is set back to a Non-Final status.

Claim Rejections - 35 USC § 103

5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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6. **Claims 1, 3-7, 9-10, 12, 14-17, and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stammers et al, US Patent No. 7096554B1, hereinafter "Stammers", in view of Schwabe, US Patent No. 6883163.**

7. **As per claims 1, 7, 10, 12, and 17:**

STAMMERS discloses "The method for language verification of a reduced file derived from an original file, the reduced file conserving original semantics, said method, comprising:

a) a conversion step for converting said reduced file (ClassLoader reads the JAR file and converts the class byte code into executable code in Java virtual machine working memory (Col 7 lines 20-26)) into a corresponding converted file (class objects (Col 7 lines 35-40)) that is semantically identical to said reduced file

wherein said conversion step further includes:

"A preconversion substep for converting Java Card lds contained in said Java Card CAP file into symbolic names [JAR file is the CAP file. The classloader create class objects only from class files contained in the JAR file signed class items (Col 7 lines 26-27)], and for converting said Java card CAP file into a standard Java format (Class objects executable in JAVA virtual machine working memory (Col 7 lines 20-26), to obtain a preconverted file [initialization file object (Col 8 lines 3-7)]; and

"A mapping substep for replacing in said preconverted file externally defined names with original names by using a mapping scheme between Java names and tokenized identifiers (Every Object created by a classloader is tagged with a reference

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to that classloader. A classloader maintains references to all of the objects it has created in a hashtable keyed on the object name reference to the class file), to obtain the converted Java Code file for a language verification step” in (Col 7 lines 25-40); and

However, STAMMERS does not specifically teach a method of “b) a language-verification step for verifying said converted file”.

Nevertheless, Schwabe discloses the “Populating resource constrained devices with content verified using API definitions” invention, which includes a method to verify the CAP file or binary file using the API definitions, which is an export file of the class file (Col 18 lines 5-17, and Col 16 lines 18-35). The verification process utilizes the API definition file (Export class file) and the binary file (CAP or JAR file) to create a code sample for execution similar to the class object in Stammers’ teaching. The execution result integer parameter should match the declaration method in the binary file (Col 16 line 60 to Col 17 line 13). The code sample and the object are similar.

Therefore, it would have been obvious at the time of the invention was made for one having ordinary skill in the art to modify STAMMERS’ teaching and incorporate Schwabe’s bytecode verification method to verify the JAR or CAP file.

8. As per claims 3, 14, and 19:

SCHWABE disclose “The method for language verification of a Java card CAP file according to Claims 2, 13, and 18, wherein said mapping sub-step is performed using a referenced Java export file (API definition file) which is available as a result of

creating said Java card CAP file from said original Java code file" in (Col 18 lines 5-17, and Col 16 lines 18-35).

9. As per claim 9:

SCHWABE disclose "The method for language verification of a reduced file according to Claim 8, wherein said mapping sub-step is performed using a referenced difference file which is available as a result of deriving said reduced file from said original file" in (Col 18 lines 5-17, and Col 16 lines 18-35)

10. As per claims 4, and 15:

SCHWABE discloses "The method for language verification of a Java card CAP file according to Claims 1 and 12 the method further comprising: c) a signature step for creating, after verification of said converted Java code file in said language verification step, a second cryptographic signature file" in (Col 17 lines 55-67).

11. As per claims 5 and 16:

SCHWABE discloses "The method for language verification of a Java card CAP file according to Claims 4 and 15, further comprising: d) a loading step for loading the second cryptographic device together with the Java card CAP file, signature file to a storage" in (Col 18 lines 15-25).

12. As per claim 6:

SCHWABE discloses "The method for language verification of a Java card CAP file according to Claim 4, wherein the second cryptographic signature file is cryptographically verifiable, said method further comprising: e) an executing step for executing cryptographic verification said Java card CAP file upon a positive" in (Col 16 lines 35-55) [the verification is verified when a signature is matched (Col 16 lines 47-52)].

13. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Linh LD Son whose telephone number is 571-272-3856. The examiner can normally be reached on 9-6 (M-F).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Kim Vu can be reached on 571-272-3859. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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Linh LD Son

Examiner

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Chankya B. Nay
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